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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commons	10/016,941	ERRICO ET AL.				
Office Action Summary	Examiner	Art Unit				
	NAMITHA PILLAI	2173				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. lely filed the mailing date of this α ○ (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 Ja</u>	nuarv 2008.					
· <u> </u>	action is non-final.					
3) Since this application is in condition for allowan		secution as to the	merits is			
closed in accordance with the practice under E.						
Discussified of Obstace	•					
Disposition of Claims						
	4)⊠ Claim(s) <u>1-7,9-34,36,37,39-56 and 58-86</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7,9-34,36,37,39-56 and 58-86</u> is/are	rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	•.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/12/07, 3/3/08 and 3/27/08.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

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DETAILED ACTION

Response to Amendment

1. The Examiner acknowledges Applicant's submission on 1/7/08 including amendments to claims 1 and 56. All pending claims have been rejected where the previous rejection has been maintained. In view of the amendments, the 35 U.S.C. 112 rejections against claims 1, 6, 7, 9 and 10 have been withdrawn. In view of arguments against the 35 U.S.C. 112 rejection against claim 11, the arguments have been persuasive and the rejection against claim 11 has been withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7, 9-34, 36, 37, 39-56 and 58-86 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Adjustable Filmstrips and Skims as Abstractions for a Digital Video Library" (Christel et al.), herein referred to as Christel, "Bayesian Modeling Of Video Editing And Structure: Semantic Features For Video Summarization And Browsing" (Vasconcelos et al.), herein referred to as Vasconcelos and U. S. Patent No. 6, 880, 171 B1 (Ahmad et al.), herein referred to as Ahmad.

Referring to claim 1, Christel discloses a method of presenting information regarding a video with a plurality of frames (page 2, column 2, lines 11-19). Christel discloses summarizing a video by identifying a plurality of segments of the video based

upon an event (page 4, column 2, lines 28-32). Christel discloses that each of the segments includes a plurality of seguential frames of the video (page 4, column 2, lines 8-20). Christel discloses displaying a summarization in a first portion of a display (Figure 5), wherein the first portion discloses a snapshot of a skim and indicating the sequences that make up the skim at the bottom of the window. Christel discloses displaying a graphical user interface on a second portion of the display, sequentially indicating the relative location of the plurality of segments within the summarization relative to at least one other of the segments as each of the plurality of segments is displayed (Figure 5), wherein the second portion displays the match locations in relation to the location of plurality of segments within the summarization. The plurality of segments is bounded blocks of spatial region that are displayed on the second display portion of the display. Christel discloses displaying to the user the relative location for a first type of content of the video using a first visual indication (Figure 5), wherein this is represented as the gray blocks at the bottom of the window and displaying the relative location for second type of content of the video using a second visual indication different from the first visual indication (Figure 5), wherein the white lines showing the match locations represents the second visual indication. Christel discloses receiving from the user through interaction with the graphical user interface a selection of one of the plurality of segments (Figure 6 and page 5, column 2, lines 1-7). The user interaction allows for viewing desired segment based on the initial summary of the segment that the user has viewed. In response to the selection, presenting a selected one of the plurality of segments and not presenting at least one other of the plurality of segments.

Once the user has determined that a certain segment is to be viewed, user interaction with the display of Figure 6 allows for that distinct segment to be viewed while not viewing other segments, which can be skimmed through. Christel does not explicitly disclose that the event being captured is characterized by a play, wherein this play is of a sport. It would have been obvious for one skilled in the art at the time of the invention that the event being captured is characterized by a play within a sport. Christel includes all types of video when discussing capturing of important events from a video, wherein based on the content of the video, any important events relevant to that specific video would be captured. Christel discloses that the goal of the invention is to display the essential content of a video, and wherein it is obvious that when the video is that of a sporting event, the essential content would be the plays and hence it would be obvious for Christel to captures these plays, wherein these plays are those that are part of a sporting event. The plays clearly represent characterizations of semantic events of the sporting event, representing an event that has clear association with the context of the sporting event and describing specific events that have occurred. Christel does not disclose two different characterizations of semantic events, which are indicated by two different visual means. Vasconcelos discloses identifying specific semantic events and displaying the identified data through visual indications in a timeline (Figure 2). It would have been obvious to one skilled in the art at the time of the invention to learn from Vasconcelos to identify semantic events and display the identified data in a timeline. With Vasconcelos teaching that identification of semantic data will allow users to quickly access relevant and desired portions of a large video (page 5, column 1, lines 10-12)

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provides a motivation for one skilled in the art to learn from Vasconcelos. Therefore, based on the information provided by Vasconcelos, Christel's video system would have been motivated to learn from Vasconcelos to identify semantic events from within video data. One skilled in the art at the time of the invention would have been motivated to learn from Vasconcelos to identify semantic events from video data and display the data in a timeline format.

Christel and Vasconcelos do not disclose displaying the identified semantic events in the timeline with different visual indications for two different characterizations of semantic event. Ahmad discloses obtaining summary data related to video and audio data, with visual means for indicating a relative location for a first characterization of data in a video data and displaying the relative location for a second characterization of data in the video using a second visual indication different from the first visual indication (column 16, lines 54-65). It would have been obvious for one skilled in the art, at the time of the invention to learn from Ahmad to teach two different visual indications for two different characterizations or descriptions of information. Christel, Vasconcelos and Ahmad disclose systems for summarizing and obtaining relevant data from video and audio data, further displaying timelines for indicating relevant data. Ahmad further displays detailed bar information to indicate different visual means for different characterizations of data. It would have been obvious for one skilled in the art, at the time of the invention to learn from Ahmad to implement detailed bar data to further provide more detailed information concerning the video and summary data obtained. Vasconcelos discloses an objective for providing semantic information so as to display

data without overwhelming the user. Vasconcelos' timeline includes the identification of different characterizations of semantic events through letters A, D, C and S would further be efficiently handled by providing two different visual indications for different characterizations of semantic events. The display means of Ahmad would allow for easier accessing of desired data with clear displays mean for quickly identifying specific data. Therefore, one skilled in the art would have been motivated to learn from Ahmad to use different visual indications for displaying different characterizations of semantic events.

Referring to claim 2, Christel, Vasconcelos and Ahmad disclose that the first and second semantic characterizations of the play temporally overlap in the summarization (Christel, Figures 5 and 6), where the summarization sections discloses two types of data with each of them temporally overlapping at distinct points.

Referring to claim 3, Christel discloses a generally rectangular region where each of the plurality of segments is indicated within the generally rectangular region (Figure 5).

Referring to claim 4, Christel discloses that the size of each of the plurality of segments is indicated in a manner such that the plurality of segments with a greater number of frames are larger than the plurality of segments with a lesser number of frames (Figure 5).

Referring to claim 5, Christel discloses that the size of the regions between each of the plurality of segments is indicated in a manner such that the regions between with a greater number of frames are larger than plurality of segments with a lesser number of frames (Figure 5).

Referring to claim 6, Christel discloses that the user selects one of the plurality of segments by interacting with the graphical user interface at point within the displayed bounded spatial region associated with the selected one of the plurality of segments (Figure 6). The user selects one of the desired segments through the user interface of Figure 6, the user selector selected at a distinct point selects the desired one of the plurality of segments.

Referring to claim 7, Christel discloses presentation of a selected one of the plurality of segments begins at a first frame of the segment irrespective of which point within the displayed bounded spatial region that the user interacted with (Figure 6 and page 5, column 2, lines 1-7).

Referring to claim 9, Christel discloses that the presentation of a selected one of the plurality of segments begins at a frame of the segment temporally corresponding to the point within the displayed spatial region that the user interacted with (Figure 6). The segment selected begins at a first frame of the selected segment with all segments being temporally placed in relation to the bound spatial region.

Referring to claim 10, Christel discloses including a selector by which the user may alternatively select a chosen of the presentation of a selected one of the plurality of segments beginning at the first frame of the segment irrespective of which point with the displayed bounded spatial region that the user interacted with (Figure 6 and page 5, column 2, lines 1-7). Christel also discloses presentation of a selected one of the plurality of segments beginning at a frame of the segment temporally corresponding to the point within the displayed bounded spatial region that the user interacted that the

user interacted with (Figure 6). The segment selected begins at a first frame of the selected segment with all segments being temporally placed in relation to the bound spatial region.

Referring to claim 11, Christel discloses including a user moveable scroll bar on the graphical user interface indicating the relative temporal location of the currently presented frames of the summary (Figures 5 and 6). Christel discloses that the user selects one of the plurality of segments by moving the scroll bar over the selected one of the plurality of segments with the scroll bar snapping to the beginning of the selected one of the plurality of segments (Figures 5 and 6).

Referring to claim 12, Christel discloses that at least two of the plurality of segments is temporally overlapping (page 4, column 2, lines 26-29).

Referring to claim 13, Christel discloses that the temporally overlapping segments are visually indicated in a manner such that each of the overlapping segments is independently identifiable (page 4, column 2, lines 26-31).

Referring to claim 14, Christel discloses that a user selects a portion of the video not included within the plurality of segments, wherein in response thereto, the system presents one of the pluralities of segments (Figure 6).

Referring to claim 15, Christel discloses that one of the pluralities of segments is the segment most temporally adjacent to the portion of the video (Figure 6).

Referring to claim 16, Christel discloses that one of the pluralities of segments is the next temporally related segment (Figure 6).

Referring to claim 17, Christel discloses that the plurality of segments is the previous temporally related segment (Figure 6).

Referring to claim 18, Christel discloses that a user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system presents the portion of the video from the start thereof (page 5, column 1, lines 5-11).

Referring to claim 19, Christel discloses that a user selects a portion of the video not included within the plurality of segments, wherein in response thereto, the system presents one of the plurality of segments, and wherein the user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system presents the portion of the video within the plurality of segments (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 20, Christel discloses that a user selects a portion of the video not included within the plurality of segments, wherein in response thereto, the system presents one of the plurality of segments, and wherein the user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system presents the portion of the video within the plurality of segments starting from the beginning thereof (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 21, Christel discloses that a user selects a portion of video not included within the plurality of segments, wherein in response thereto, the system presents the selected portion not included within the plurality of segments, and wherein after presenting the selected portion not included within the plurality of segments presents the selected plurality of segments in temporal order without portions of the

video not included within the plurality of segments, and wherein the user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system presents the portion of the video within the plurality of segments (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 22, Christel discloses that the temporal information is hierarchical and is displayed in such a manner to retain a portion of its hierarchical structure (Figure 6).

Referring to claim 23, Christel discloses that temporal information relates to overlapping time periods and the temporal information is displayed in such a manner to maintain the differentiation of the overlapping time periods (Figure 5 and page 4, column 2, lines 26-31).

Referring to claim 24, Christel discloses that the temporal information is displayed within a time line, wherein the temporal information is presented in a plurality of layers in a direction perpendicular to the length of the time line (Figure 5).

Referring to claim 25, Christel discloses that the temporal information is displayed within a time line, wherein textual information is included within the time line (Figure 6).

Referring to claim 26, Christel discloses that additional textual information is displayed upon selecting a portion of the time line (Figure 6).

Referring to claim 27, Christel discloses that temporal information is displayed together with a time line, wherein additional textual information is displayed together with selecting a portion of the time line (Figure 6).

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Referring to claim 28, Christel discloses that temporal information is displayed within a time line, wherein additional audio annotation is presented upon presenting a portion of the time line (page 4, column 1, lines 33-37 and Figure 6).

Referring to claim 29, Christel discloses a method of presenting information regarding a video with a plurality of frames (page 2, column 2, lines 11-19). Christel discloses identifying a plurality of different segments of the video, where each of the segments includes a plurality of frames of the video (page 4, column 2, lines 8-32). Christel discloses displaying, simultaneously with a segment of the video, a graphical user interface including information regarding the temporal location of the segments, relative to at least one other of the segments of the video (Figure 5). Christel discloses displaying in an interactive display a temporal location for a first characterization of the content of the video using a first visual indication (Figure 5), wherein this is represented as the gray blocks at the bottom of the window and displaying the temporal location for second characterization of the content of the video using a second visual indication different from the first visual indication (Figure 5), wherein the white lines showing the match locations represents the second visual indication. Christel discloses displaying to a user a selector by which the user may interact with the interactive display to select for viewing selective identified ones of the plurality of segments (Figure 6 and page 5, column 2, lines 1-7). The selector of the user interface of Figure 6 allows for the user to select for viewing one of the desired segments of the plurality of segments. Christel also discloses receiving user-selections of identified ones of the plurality of segments (page 5, column 2, lines 1-7) and presenting these segments (Figure 6). Christel does

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not disclose two different characterizations of semantic events through indicated by two different visual means. Vasconcelos discloses identifying specific semantic events and displaying the identified data through visual indications in a timeline (Figure 2). It would have been obvious to one skilled in the art at the time of the invention to learn from Vasconcelos to identify semantic events and display the identified data in a timeline. With Vasconcelos teaching that identification of semantic data will allow users to quickly access relevant and desired portions of a large video (page 5, column 1, lines 10-12) provides a motivation for one skilled in the art to learn from Vasconcelos. Therefore, based on the information provided by Vasconcelos, Christel's video system would have been motivated to learn from Vasconcelos to identify semantic events from within video data. One skilled in the art at the time of the invention would have been motivated to learn from Vasconcelos to identify semantic events from video data and display the data in a timeline format.

Christel and Vasconcelos do not disclose displaying the identified semantic events in the timeline with different visual indications for two different types of semantic event. Ahmad discloses obtaining summary data related to video and audio data, with visual means for indicating a relative location for a first type of data in a video data and displaying the relative location for a second type of data in the video using a second visual indication different from the first visual indication (column 16, lines 54-65). It would have been obvious for one skilled in the art, at the time of the invention to learn from Ahmad to teach two different visual indications for two different types of information. Christel, Vasconcelos and Ahmad disclose systems for summarizing and

obtaining relevant data from video and audio data, further displaying timelines for indicating relevant data. Ahmad further displays detailed bar information to indicate different visual means for different types of data. It would have been obvious for one skilled in the art, at the time of the invention to learn from Ahmad to implement detailed bar data to further provide more detailed information concerning the video and summary data obtained. Vasconcelos discloses an objective for providing semantic information so as to display data without overwhelming the user. Vasconcelos' timeline includes the identification of different types of semantic events through letters A, D, C and S would further be efficiently handled by providing two different visual indications for different types of semantic events. The display means of Ahmad would allow for easier accessing of desired data with clear displays mean for quickly identifying specific data. Therefore, one skilled in the art would have been motivated to learn from Ahmad to use different visual indications for displaying different types of semantic events.

Referring to claim 30, Christel discloses a generally rectangular region where each of the plurality of segments is indicated within the generally rectangular region (Figure 5).

Referring to claim 31, Christel discloses that the size of each of the plurality of segments is indicated in a manner such that the plurality of segments with a greater number of frames are larger than the plurality of segments with a lesser number of frames (Figure 5).

Referring to claim 32, Christel discloses that the size of the regions between each of the plurality of segments is indicated in a manner such that the regions between

with a greater number of frames are larger than plurality of segments with a lesser number of frames (Figure 5).

Referring to claim 33, Christel discloses an indicator that indicates the current position within the temporal information of a currently displayed portion of the video (Figure 5).

Referring to claim 34, Christel discloses the indicator changes location relative to the temporal information as the portion of the currently displayed portion of the video changes (Figure 5).

Referring to claim 36, Christel discloses indicating with an indicator the current position within the temporal information of a currently displayed portion of said video and modifying the position of the indicator within the temporal information, which modifies the displayed portion of the video (Figures 5 and 6).

Referring to claim 37, Christel discloses that the indicator is modified to a portion of the video that is not included within the plurality of segments (Figures 5 and 6).

Referring to claim 38, Christel discloses the first type of content and second type of content are selectable by a user for presentation to the user (Figure 5, page 5, column 1, lines 9-12 and Figure 6).

Referring to claims 39 and 60, Christel discloses that at least two of the plurality of segments is temporally overlapping (page 4, column 2, lines 26-29).

Referring to claims 40 and 61, Christel discloses that the temporally overlapping segments are visually indicated in a manner such that each of the overlapping segments is independently identifiable (page 4, column 2, lines 26-31).

Referring to claim 41, Christel discloses that a user selects a portion of the video not included within the plurality of segments, wherein in response thereto, the system presents one of the pluralities of segments (Figure 6).

Referring to claim 42, Christel discloses that one of the pluralities of segments is the segment most temporally adjacent to the portion of the video (Figure 6).

Referring to claim 43, Christel discloses that one of the pluralities of segments is the next temporally related segment (Figure 6).

Referring to claim 44, Christel discloses that the plurality of segments is the previous temporally related segment (Figure 6).

Referring to claim 45, Christel discloses that a user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system presents the portion of the video from the start thereof (page 5, column 1, lines 5-11).

Referring to claim 46, Christel discloses that a user selects a portion of the video not included within the plurality of segments, wherein in response thereto, the system presents one of the plurality of segments, and wherein the user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system presents the portion of the video within the plurality of segments (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 47, Christel discloses that a user selects a portion of the video not included within the plurality of segments, wherein in response thereto, the system presents one of the plurality of segments, and wherein the user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system

presents the portion of the video within the plurality of segments starting from the beginning thereof (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 48, Christel discloses that a user selects a portion of video not included within the plurality of segments, wherein in response thereto, the system presents the selected portion not included within the plurality of segments, and wherein after presenting the selected portion not included within the plurality of segments presents the selected plurality of segments in temporal order without portions of the video not included within the plurality of segments, and wherein the user selects a portion of the video included within the plurality of segments, wherein in response thereto, the system presents the portion of the video within the plurality of segments (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 49, Christel discloses that the temporal information is hierarchical and is displayed in such a manner to retain a portion of its hierarchical structure (Figure 6).

Referring to claim 50, Christel discloses that temporal information relates to overlapping time periods and the temporal information is displayed in such a manner to maintain the differentiation of the overlapping time periods (Figure 5 and page 4, column 2, lines 26-31).

Referring to claims 51 and 72, Christel discloses that the temporal information is displayed within a time line, wherein the temporal information is presented in a plurality of layers in a direction perpendicular to the length of the time line (Figure 5).

Referring to claims 52 and 73, Christel discloses that the temporal information is displayed within a time line, wherein textual information is included within the time line (Figure 6).

Referring to claims 53 and 74, Christel discloses that additional textual information is displayed upon selecting a portion of the time line (Figure 6).

Referring to claims 54 and 75, Christel discloses that temporal information is displayed together with a time line, wherein additional textual information is displayed together with selecting a portion of the time line (Figure 6).

Referring to claims 55 and 76, Christel discloses that temporal information is displayed within a time line, wherein additional audio annotation is presented upon presenting a portion of the time line (page 4, column 1, lines 33-37 and Figure 6).

Referring to claim 56, Christel discloses a method of presenting information regarding audio (page 2, column 2, lines 11-19). Christel discloses identifying a plurality of different segments of the audio, where each of the segments includes a temporal duration of the audio (page 4, column 2, lines 8-32). Christel discloses displaying, simultaneously with the segment of the audio, a graphical user interface including information regarding the temporal location of the segments, relative to at least one other of segment of the audio (Figure 5). Christel discloses displaying in an interactive display the temporal location for a first characterization of content of the audio using a first visual indication (Figure 5), wherein this is represented as the gray blocks at the bottom of the window and displaying the temporal location for second characterization of content of the audio using a second visual indication different from the first visual

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indication (Figure 5), wherein the white lines showing the match locations represents the second visual indication. Christel discloses displaying to a user a selector by which the user may interact with the interactive display to select for listening selective identified ones of the plurality of segments (Figure 6 and page 5, column 2, lines 1-7). The selector of the user interface of Figure 6 allows for the user to select for viewing and listening one of the desired segments of the plurality of segments of video data. Video data includes data that can be viewed and listened to. Christel also discloses receiving user-selections of identified ones of the plurality of segments (page 5, column 2, lines 1-7) and presenting these segments (Figure 6). Christel does not disclose two different characterizations of semantic events through indicated by two different visual means. Vasconcelos discloses identifying specific semantic events and displaying the identified data through visual indications in a timeline (Figure 2). It would have been obvious to one skilled in the art at the time of the invention to learn from Vasconcelos to identify semantic events and display the identified data in a timeline. With Vasconcelos teaching that identification of semantic data will allow users to quickly access relevant and desired portions of a large video (page 5, column 1, lines 10-12) provides a motivation for one skilled in the art to learn from Vasconcelos. Therefore, based on the information provided by Vasconcelos, Christel's video system would have been motivated to learn from Vasconcelos to identify semantic events from within video data. One skilled in the art at the time of the invention would have been motivated to learn from Vasconcelos to identify semantic events from video data and display the data in a timeline format.

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Christel and Vasconcelos do not disclose displaying the identified semantic events in the timeline with different visual indications for two different types of semantic event. Ahmad discloses obtaining summary data related to video and audio data, with visual means for indicating a relative location for a first type of data in a video data and displaying the relative location for a second type of data in the video using a second visual indication different from the first visual indication (column 16, lines 54-65). It would have been obvious for one skilled in the art, at the time of the invention to learn from Ahmad to teach two different visual indications for two different types of information. Christel, Vasconcelos and Ahmad disclose systems for summarizing and obtaining relevant data from video and audio data, further displaying timelines for indicating relevant data. Ahmad further displays detailed bar information to indicate different visual means for different types of data. It would have been obvious for one skilled in the art, at the time of the invention to learn from Ahmad to implement detailed bar data to further provide more detailed information concerning the video and summary data obtained. Vasconcelos discloses an objective for providing semantic information so as to display data without overwhelming the user. Vasconcelos' timeline includes the identification of different types of semantic events through letters A, D, C and S would further be efficiently handled by providing two different visual indications for different types of semantic events. The display means of Ahmad would allow for easier accessing of desired data with clear displays mean for quickly identifying specific data. Therefore, one skilled in the art would have been motivated to learn from Ahmad to use different visual indications for displaying different types of semantic events.

Referring to claim 58, Christel discloses indicating with an indicator the current position within the temporal information of a currently displayed portion of said audio and modifying the position of the indicator within the temporal information, which modifies the displayed portion of the audio (Figures 5 and 6).

Referring to claim 59, Christel discloses that the indicator is modified to a portion of the audio that is not included within the plurality of segments (Figures 5 and 6).

Referring to claim 62, Christel discloses that a user selects a portion of the audio not included within the plurality of segments, wherein in response thereto, the system presents one of the pluralities of segments (Figure 6).

Referring to claim 63, Christel discloses that one of the pluralities of segments is the segment most temporally adjacent to the portion of the audio (Figure 6).

Referring to claim 64, Christel discloses that one of the pluralities of segments is the next temporally related segment (Figure 6).

Referring to claim 65, Christel discloses that the plurality of segments is the previous temporally related segment (Figure 6).

Referring to claim 66, Christel discloses that a user selects a portion of the audio included within the plurality of segments, wherein in response thereto, the system presents the portion of the audio from the start thereof (page 5, column 1, lines 5-11).

Referring to claim 67, Christel discloses that a user selects a portion of the audio not included within the plurality of segments, wherein in response thereto, the system presents one of the plurality of segments, and wherein the user selects a portion of the audio included within the plurality of segments, wherein in response thereto, the system

presents the portion of the audio within the plurality of segments (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 68, Christel discloses that a user selects a portion of the audio not included within the plurality of segments, wherein in response thereto, the system presents one of the plurality of segments, and wherein the user selects a portion of the audio included within the plurality of segments, wherein in response thereto, the system presents the portion of the audio within the plurality of segments starting from the beginning thereof (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 69, Christel discloses that a user selects a portion of audio not included within the plurality of segments, wherein in response thereto, the system presents the selected portion not included within the plurality of segments, and wherein after presenting the selected portion not included within the plurality of segments presents the selected plurality of segments in temporal order without portions of the audio not included within the plurality of segments, and wherein the user selects a portion of the audio included within the plurality of segments, wherein in response thereto, the system presents the portion of the audio within the plurality of segments (page 5, column 1, lines 5-11 and Figure 6).

Referring to claim 70, Christel discloses that the temporal information is hierarchical and is displayed in such a manner to retain a portion of its hierarchical structure (Figure 6).

Referring to claim 71, Christel discloses that temporal information relates to overlapping time periods and the temporal information is displayed in such a manner to

maintain the differentiation of the overlapping time periods (Figure 5 and page 4, column 2, lines 26-31).

Referring to claim 77, Christel discloses a user selectable skip function skips a set of frames to a modified location of the video in at least one of a forward temporal direction or a reverse temporal direction, and displays the video at the modified location (Figure 6).

Referring to claim 78, Christel discloses a user selectable skip function skips to a later temporal segment or a previous temporal segment, and displays video at the later temporal segment or the previous temporal segment, respectively (Figure 6).

Referring to claim 79, Christel discloses that a user selectable scan function skips a set of frames to a modified location of the video in at least one of a forward temporal direction or a reverse temporal direction, and displays the video at the modified location, and thereafter automatically skips another set of frames to another modified location of the video in at least one of the forward temporal direction or the reverse temporal direction, and displays the video at another modified location (Figure 6).

Referring to claim 80, Christel discloses that at least one of the forward temporal direction and reverse temporal direction are consistent with the different segments (Figure 6).

Referring to claim 81, Christel discloses that the display of the video is at the start of the respective one of the different segments (Figure 6).

Referring to claim 82, Christel discloses that the display of the video is at a predetermined offset within the respective one of the different segments (Figure 6).

Referring to claim 83, Christel discloses that the graphical user interface displays a respective image associated with at least a plurality of the different segments (Figure 6).

Referring to claim 84, Christel discloses that the respective image associated with the currently presented different segments is visually highlighted (Figure 6).

Referring to claim 85, Christel discloses that during presentation of the video visually highlighted respective images are highlighted in a substantially regular interval while the sequence of the presentation of the video is at substantially irregular intervals (Figure 6).

Referring to claim 86, Christel discloses presentation of the different segments may be modified by a plurality of different functions, and wherein the user may customize another function, not previously explicitly provided, by combing a plurality of the plurality of different functions into a single function (page 5, column 1, lines 9-11 and Figure 6).

Response to Arguments

3. Applicant's arguments against the 35 U.S.C. 103 rejections have been fully considered but they are not persuasive.

Applicant argues that Christel does not disclose selection of the bounded segments. In contrast to Applicant's arguments, Christel discloses Figure 6 that is generated in response to user selection is a result of transitioning from the Figure 5 to

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Figure 6. Adjusting the compression ration involves selection of segments where the details of the segments are adjusted based on user selection. The same segments within the first and second display portions are selected and further adjusted to show details associated with those segments. Skim playback includes playing specific segments that have been identified and not playing segments that are part of the skim data. As shown in Figures 5 and 6, a scroll bar is displayed in the area with the segments which can be used to select distinct segments. User selection is made to adjust previous decisions made associated with generated segments. Christel discloses that Figure 6 is an adjusted interface based on further selections made from the user interface of Figure 5. The video data and the plurality of segments therefore are the same that are in Figure 5. The segment in Figure 5 is selected for the user to adjust in Figure 6. The bounded segments from Figure 5 are selected and adjusted. These segments are then played with exclusion of other video data segments that are not played. Playback of skim data involves playback of specified segments with exclusion of video segments that are not part of the skim data.

Applicant argues that no cited art discloses the limitation displaying to a user the relative location for a first semantic characterization of a sports play in video using a first visual indication and displaying the relative location for a second semantic characterization of a sports play in the video using a second visual indication different from the first visual indication. As previously address, in contrast to Applicant's arguments, the combination of Christel, Vasconcelos and Ahmad discloses displaying to a user the relative location for a first semantic characterization of a sports play in video

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using a first visual indication and displaying the relative location for a second semantic characterization of a sports play the video using a second visual indication different from the first visual indication. The three references above recite limitations that are claimed and are directed to visualization of media data while emphasizing specified data within the media data. The features are disclosed in the combination of Christel, Vasconcelos and Ahmad where these three references disclose the features claimed. The present invention is directed to claiming features that are disclosed previously in the field of media summarization. In view of the features disclosed in the three references, it would have been obvious to one skilled in the art at the time of the invention to implement displaying to a user the relative location for a first semantic characterization of a sports play in video using a first visual indication and displaying the relative location for a second semantic characterization of a sports play the video using a second visual indication different from the first visual indication. The teachings of Christel, Vasconcelos and Ahmad would have suggested to one of ordinary skill in the art that media data with certain characteristics is summarized with visual indications. The combination would have been obvious in view of what these three references would have suggested to one of ordinary skill in the art in the field of media summarization. As stated in Applicant's arguments, it would have been obvious that the video data that is summarized in Christel includes sports play data. Clearly Christel has conveyed that visual indication is provided in the bars on Figures 5 and 6 to identify distinct summarized clips. These visual indications disclose relative locations of distinct summarized clips in association with the entire video data. The Figures 5 and 6 of

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Christel indicate the visual indications are relied upon to easily identify specific video data. Vasconcelos is a system that has the same objective to summarize video data specifically associated with semantic characterization of the content of the video data. The teachings of identifying specific video data based on semantic characterization would suggest to Christel which is also summarizing video data that the specific desired video clips that are identified in Christel can be based on semantic characterization which is associated with actual content of the video. Regardless of if Vasconcelos provides a technical means to carry out the semantic characterization, Vasconcelos does disclose identifying semantic characterizations which would suggest to Christel a means for identifying summarized video data based on the content of the video data.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Responses to this action should be submitted as per the options cited below: The United States Patent and Trademark Office requires most patent related correspondence to be: a) faxed to the Central Fax number (571-273-8300) b) hand carried or delivered to the Customer Service Window (located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), c) mailed to the mailing address set forth in 37 CFR 1.1 (e.g., P.O. Box 1450, Alexandria, VA 22313-1450), or d) transmitted to the Office using the Office's Electronic Filing System.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Namitha Pillai whose telephone number is (571) 272-4054. The examiner can normally be reached from 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doon Chow can be reached on (571) 272-7767.

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2100.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Namitha Pillai Patent Examiner Art Unit 2173 April 23, 2008

/Tadesse Hailu/ Primary Examiner, Art Unit 2173